

## AMENDMENTS

Please cancel claims:

3, 8, 12, 23-24, 28-29, 32-37, 42, 44-48, 56-58, 62, 65-71, 79-82, 86, 91-92, 97-98

Please make the following amendments to the claims:

*Subj A1*  
1 (Amended). An tunable optical device, comprising:

a holographic element, having a hologram therein which has a predetermined relationship to a plurality of wavelengths;

a wavelength varying element, coupled to said holographic element, and varying said predetermined relationship; and

a first optical system, handling first wavelengths of an optical signal which pass through said holographic element without being changed by said hologram as an output signal; and a second optical system, separate from said first optical system, and handling a second optical signal including said plurality of wavelengths having said predetermined relationship as varied by said wavelength varying element.

*A2*  
19 (Amended). An device as in claim 18, wherein said add port comprises a Y junction.

*A3*  
38 (Amended). A method for multiplexing wavelengths, comprising:

applying an input optical signal having a plurality of wavelengths therein to an area of a hologram;

tuning said hologram to one of said plurality of wavelengths; and

adjusting said hologram to separately optically process said one of said wavelengths differently from others of said wavelengths.

*A3*  
*end*

39 (Amended). A method as in claim 38, wherein an output signal includes all wavelengths except said one of said wavelengths and producing a dropped signal including only said one of said wavelengths.

*A4*

49 (Amended). A method as in claim 38, wherein said an optical output signal travels in substantially a same direction as said input optical signal.

*A5*

61 (Amended). An apparatus as in claim 60, wherein said tuning element changes by moving said hologram.

*A6*

63 (Amended). An apparatus as in claim 61, wherein said moving said hologram moves said hologram in a way which forms a substantially cone shape.

*A7*

83 (Amended). A device as in claim 76, wherein said output optical beam includes a first output optical beam and a dropped optical beam, extending in different directions, said first output optical beam having at least one frequency band removed relative to said input optical beam.